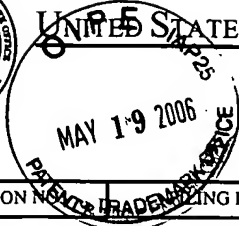




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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/671,026	09/24/2003	Bruce Karsh	50269-0562	7849

7590 05/09/2006
HICKMAN PALERMO TRUONG & BECKER, LLP
1600 WILLOW STREET
SAN JOSE, CA 95125

EXAMINER

FRISBY, KESHA

ART UNIT PAPER NUMBER

3715

DATE MAILED: 05/09/2006

BEST AVAILABLE COPY

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/671,026

Applicant(s)

KARSH ET AL.

Examiner

Kesha Frisby

Art Unit

3715

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 September 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 9/24/2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 4-6 & 11-13 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claim 4 appears to be an abstract idea rather than a practical application of the idea. Claim 4 does not result in a physical transformation nor does it appear to provide a use, concrete and tangible result. Therefore, claim 1 appears non-statutory. None of these dependent claims 4-6 & 11-13 correct this problem therefore they are also rejected. Please see MPEP 2106 for guidance.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

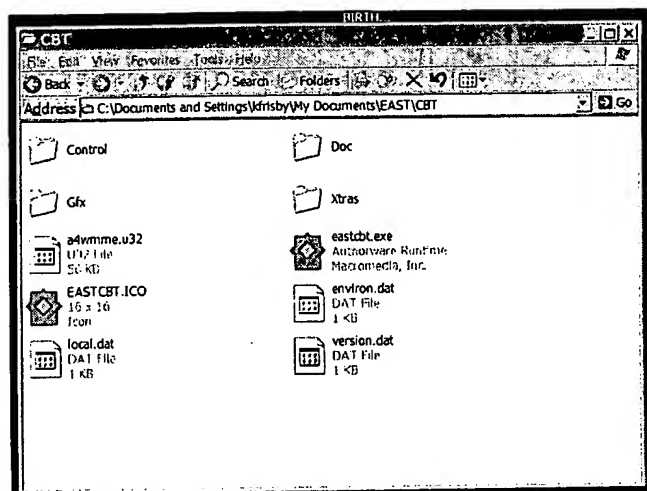
A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

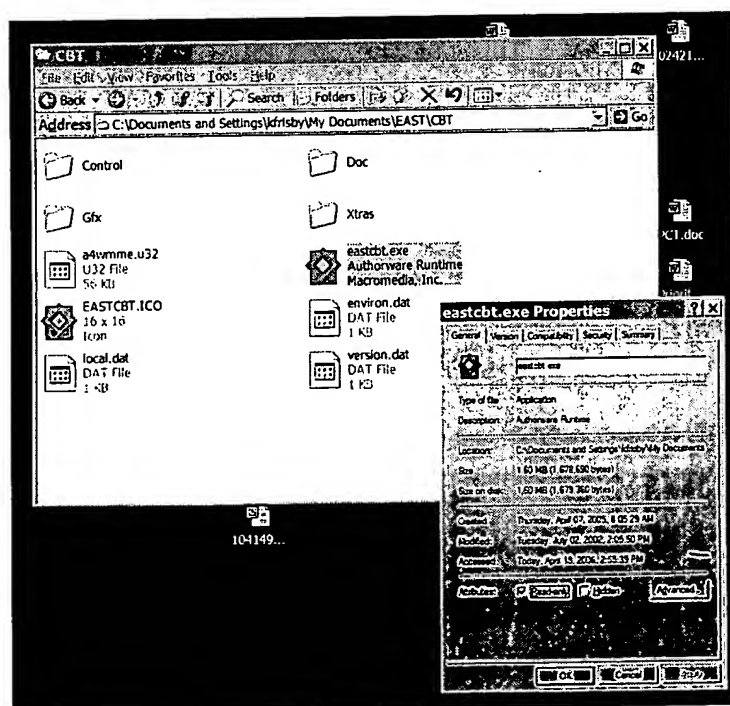
3. **Claims 1-4, 7-11 & 14 are rejected under 35 U.S.C. 102(b) as being anticipated by East (SIRA: Search & Information Resources Administration at the United States Patent & Trademark Office).** *When rejecting these claims examiner viewed East as a whole, even though the literature submitted has different prior art dates.*

Art Unit: 3715

However, the dates of the prior art documents were before the effective filing date (9/24/2003) of the applicant's application.



After right clicking on eastcbt.exe



The above screen shots have been provided to prove the date of the submitted information (PTO East Training documents dated (July 2, 2002)).

Here is an additional reference used for the rejection below:

The U.S. Patents Text Search Quick Reference Guide for East (1.1) (November 2000).

Referring to claim 1, East discloses receiving data that specifies a first form of a component word (input into BRS form, with the use of truncation, for example: fish\$); locating, within said compound word (for example, the compound word is fisherman), a second form of said component word (in this case, fisher) that differs from said first form of said component word (Once the browse button is pressed the words that are constructed from the use of the truncation fish\$ is highlighted); and displaying said compound word with said second form of said component word visibly distinguished from the remainder of said compound word (the use of the Find function, such as, typing in fisher).

Referring to claim 2, East discloses wherein said second form of said compound word is a superlative form of said first form of said compound word (the examiner views this limitation as based on what the user is searching/trying to find will determine whether or not the compound word is in superlative form).

Referring to claim 3, East discloses wherein said second form (man) of said compound word (fisherman) does not contain said first form (fish) of said compound word (fisherman).

Referring to claim 4, East discloses (still working with the example above: fisherman) determining a first stem word (fish) associated with said compound word (fisherman); determining a second stem word (man) associated with said compound word (fisherman); based on a comparison between letters in said first stem word and said

Art Unit: 3715

compound word, determining a first starting position (starting with the letter "f"); based on a comparison between letters in said second stem word and said compound word, determining a second starting position (starting with the letter "m"); determining, based on said first starting position and said second starting position associated with said first stem word (starting with the letter "m"); and determining, based on said first starting position and said second starting position, an ending position associated with said first stem word (ending with the letter "h").

Referring to claim 7, East discloses further comprising: displaying said compound word with letters at (beginning with the letter "f") and between (letters "ish") said starting position associated with said first stem word (starting with the letter "f") and said ending position (ending with the letter "h") associated with said first stem word ("fish") visibly distinguished from the remainder of said compound word ("fisherman") (the word "fish" is lighted on the computer screen when using the Find function and typing in "fish").

Referring to claim 8, East discloses a computer-readable medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method of claim 1 (see rejected claim 1).

Referring to claims 9, East discloses a computer-readable medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method of claim 2 (see rejected claim 2).

Referring to claim 11, East discloses a computer-readable medium carrying one or more sequences of instructions which, when executed by one or more processors,

Art Unit: 3715

causes the one or more processors to perform the method of claim 3 (see rejected claim 3).

Referring to claim 11, East discloses a computer-readable medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method of claim 4 (see rejected claim 4).

Referring to claim 14, East discloses a computer-readable medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method of claim 7 (see rejected claim 7).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 5, 6, 12 & 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over **East (SIRA: Search & Information Resources Administration at the United States Patent & Trademark Office)** in view of **Hull et al. (U.S. Publication Number 2003/0187886)**.

Referring to claim 5, East discloses the method of Claim 4. *East does not disclose wherein determining said first starting position comprises: determining, for a first sequence of letters in said compound word, a first score based on how many letters in*

Art Unit: 3715

said first sequence match letters in said first stem word; determining, for a second sequence of letters in said compound word, a second score based on how many letters in said second sequence match letters in said first stem word; and determining said first starting position based on said first score and said second score. East also does not disclose wherein determining said second starting position comprises: determining, for a third sequence of letters in said compound word, a third score based on how many letters in said third sequence match letters in said second stem word; determining, for a fourth sequence of letters in said compound word, a fourth score based on how many letters in said fourth sequence match letters in said second stem word; and determining said second starting position based on said third score and said fourth. However, Hull et al. teaches determining, for a first sequence of letters in said compound word, a first score based on how many letters in said first sequence match letters in said first stem word; determining, for a second sequence of letters in said compound word, a second score based on how many letters in said second sequence match letters in said first stem word; and determining said first starting position based on said first score and said second score (paragraphs 0030 & 0031). Hull et al. also teaches wherein determining said second starting position comprises: determining, for a third sequence of letters in said compound word, a third score based on how many letters in said third sequence match letters in said second stem word; determining, for a fourth sequence of letters in said compound word, a fourth score based on how many letters in said fourth sequence match letters in said second stem word; and determining said second starting position based on said third score and said fourth score (paragraphs 0030 & 0031). It would

Art Unit: 3715

have been obvious to one of ordinary skill in the art at the time the invention was made to include determining first, second, third and fourth sequences of letters, as well as, determining the first and second starting positions, as disclosed by Hull et al., incorporated into East in order to know where to start highlighting.

Referring to claim 12, East, as modified by Hull et al., teaches computer-readable medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method of claim 5 (see rejected claim 5).

Referring to claim 13, East, as modified by Hull et al., teaches a computer-readable medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method of claim 6 (see rejected claim 6).

Citation of Pertinent Prior Art

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

McGreevy (U.S. Publication Number 2003/0004914) teaches a system, method and apparatus for conducting a phrase search.

McGreevy (U.S. Publication Number 2002/0188587) teaches a system, method and apparatus for generating phrases from a database.

Hull et al. (U.S. Patent Number 6,671,684) teaches the use of scoring and highlighting within a document.


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kesha Frisby whose telephone number is 571-272-8774. The examiner can normally be reached on Mon. - Wed. 7-3pm, Thu. 6:30-4pm & Fri. 7-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Olszewski can be reached on 571-272-6678. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kyf
kyf

 5/1/06
ROBERT P. OLSZEWSKI
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600 3700

Notice of References Cited

Application/Control No.

10/671,026

Applicant(s)/Patent Under
Reexamination
KARSH ET AL.

Examiner

Kesha Frisby

Art Unit

3715

Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,671,684	12-2003	Hull et al.	707/6
*	B	US-2002/0188587	12-2002	McGreevy, Michael W.	707/1
*	C	US-2003/0004914	01-2003	McGreevy, Michael W.	707/1
*	D	US-2003/0187886	10-2003	Hull et al.	707/203
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	SIRA (Search and Information Resource Administration), PTO East Training, July 2, 2002, United States Patent and Trademark Office (SIRA: Search and Information Resource Administration), Version 4.0.0.0, pgs 1-23.
	V	SIRA (Search and Information Resource Administration), U.S. Patents Text Search Quick Reference Guide for East (1.1), July November 2000, United States Patent and Trademark Office (SIRA: Search and Information Resource Administration), Version 1.1, pgs 1-2.
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

- Welcome to EAST
- Getting Started
- Search & Retrieval
- Browsing
- Options
- Using BRS Syntax
- Printing
- Adv. Techniques

Module Goals and Objectives

Click //EXIT to continue.



LOG OUT



GLOSSARY



MAP



PRINT SCREEN



MUTE



GO BACK



PREVIOUS



NEXT

Welcome to EAST

Getting Started

Search & Retrieval

Browsing

Options

Using BRS Syntax

Printing

Adv. Techniques

Retrieval

Click NEXT to continue.



LOG OUT



GLOSSARY



MAP



PRINT SCREEN



MUTE



GO BACK



PREVIOUS



NEXT

EAST will search the current details grid for the term entered in the Find What text box. The area to be searched can be specified as the entire area, or just the part highlighted in the grid.

[illegible]

Details Grid-Finding (2)

The direction of the search -- either up or down -- can also be indicated, as can the proximity of searched to the specified term.

To do this, make a selection from the Match Word collection of radio boxes.

"Whole" will match searched terms to the entire specified term; "Part" will match searched terms to any part of the specified term; and "Left" and "Right" will match searched terms either to the left or to the right of the specified term.

Doc	IssueID	Pages	Title	Abstracts
AT	1999071	14	Moisture sensor and	A control system for automatically
AT	1999061	9	Double relay light s	A double relay control circuit for
AT	1999060	58	Electrochromic polym	The present invention relates to e
AT	1999050	5	Rain sensor system f	In a rain sensor system for a mot
AT	1999042	16	Compact moisture sen	A compact moisture sensor for moun
AT	1999021	5	Device for operating	A arrangement for operating a wind
AT	1999011	8	Process and system f	A process and a system for the ope
AT	1998101	4	Rain sensor	In a rain sensor, a sensor field

Find

Find what:

Direction: ☐ Up ☐ Down

Match word: ☐ Whole ☐ Part ☐ Left ☐ Right

Look in: ☐ Up ☐ Down

Match case: ☐

Find Next

Cancel

AT 1998071 11 Windshield wiper rain sensor system automatically

AT 1998051 8 Window capacitive mo An apparatus for sensing condensed



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MAP



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REPLAY



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MUTE



GO BACK



PREVIOUS



NEXT

Details Grid- Finding(3)

The Look In selection box tells EAST where to search. Checking Grid will prompt EAST to look for the term in either the Details or Hits pages.

The option to look up the term within documents is disabled since this search is conducted from the grid view. However, when this option is available, EAST will look for the term among the patents.

Finally, checking Match Case will direct EAST to search for the combination of upper and lower cases contained in the search form.

Proc	Issue	D	Pages	Title	Abstract
AT	1999071	14		Moisture sensor and	A control system for automaticall
AT	1999061	9		Double relay light s	A double relay control circuit fo
AT	1999060	58		Electrochromic poly	The present invention relates to
AT	1999050	5		Rain sensor system f	In a rain sensor system for a mot
AT	1999042	16		Compact moisture sen	A compact moisture sensor for mou
AT	1999021	5		Device for operating	A arrangement for operating a win
AT	1999011	8		Process and system f	A process and a system for the op
AT	1998101	4		Rain sensor	In a rain sensor, a sensor field

Find

Find whole Interiors

Find Next

Area: G Up G Down G Left G Right G Match Case G Look In G Match Case

AT 1999071 14 Windowfield viper tel rain sensor system automaticall

AT 1998051 8 Window capacitive mo An apparatus for sensing condense

Custom form BRS form GSR form 15/16 Details Image Text

Details Grid- Finding (4)

As with standard Windows operations, clicking the Find Next button will instruct EAST to continue looking for the next occurrence of the search term, while selecting Cancel will stop the search and close the dialog box.

In this case, the term "intermittent" has first been located in the patent abstract in line six.

Doc	Issue	Page	Title	Abstract
AT	1999071	14	Moisture sensor and a control system for automatically	
AT	1999061	9	Double relay light s a double relay control circuit for	
AT	1999060	58	Electrochromic polym The present invention relates to e	
AT	1999050	5	Rain sensor system f In a rain sensor system for a mot	
AT	1999042	16	Compact moisture sen A compact moisture sensor for mou	
AT	1999021	5	Device for operating A arrangement for operating a win	
AT	1999011	8	Process and system f A process and a system for the op	
AT	1998101	4	Rain sensor In a rain sensor, a sensor field	

Find

Find what: Information

Find Next

Area: G Up G Down G Left G Right

Direction: G Up G Down G Left G Right

Match word: G Whole G Part G Both

Look in: G End G Beginning G Match case

AT 1999071 14 Moisture sensor and a control system for automatically

AT 1999061 9 Double relay light s a double relay control circuit for

AT 1999060 58 Electrochromic polym The present invention relates to e

AT 1999050 5 Rain sensor system f In a rain sensor system for a mot

AT 1999042 16 Compact moisture sen A compact moisture sensor for mou

AT 1999021 5 Device for operating A arrangement for operating a win

AT 1999011 8 Process and system f A process and a system for the op

AT 1998101 4 Rain sensor In a rain sensor, a sensor field

Cancel form Custom form BRS form SAR form Help Details Image Text

- Welcome to EAST
- Getting Started
- Search & Retrieval
- Browsing
- Options
- Using BRS Syntax
- Printing
- Adv. Techniques

Welcome to EAST

Getting Started

Search & Retrieval

Browsing

Options

Using BRS Syntax

Printing

Adv. Techniques

Module Goals and Objectives

Click [NEXT] to continue.



LOG OUT



GLOSSARY



MAP



PRINT SCREEN



MUTE



GO BACK



PREVIOUS



NEXT

Welcome to EAST

Getting Started

Search & Retrieval

Browsing

Options

Using BRS Syntax

Printing

Adv. Techniques

Toolbars

Click NEXT to continue



LOG OUT



GLOSSARY



MAP



PRINT SCREEN



MUTE



GO BACK



PREVIOUS




NEXT

Browsing toolbars: The Text Viewer 22 of 30

The Text Viewer

The Text Viewer toolbar has fewer features than the Image Viewer toolbar and contains a mix of buttons and dropdown boxes. Remember that the Text Viewer toolbar is available only when the text is in the active pane.



Text Viewer
Courier New 10

Welcome to EAST

Getting Started

Search & Retrieval

Browsing

Options

Using BRS Syntax

Printing

Adv. Techniques

LOG OUT GLOSSARY MAP PRINT SCREEN REPLAY PAUSE/RESUME MUTE GO BACK PREVIOUS NEXT

Text Viewer- Keywords

On the Text Viewer toolbar, the two buttons with images of keys and either an up- or a down-arrow provide one-button access to the next and previous keywords.

If highlighting and/or underlining is required, it can be set in the display Options under the Tools menu. That will be covered in greater detail in the "Options, Dictionary & Thesaurus" module of this tutorial.

5302007
5306992
310/483

Text Viewer
Courier New
10
April 1994
Droge

ART-UNIT: 217
PRIMARY-EXAMINER: Ip: Paul
ATTY-AGENT-FIRM: Siebel & French

ABSTRACT:
A neural network provides automatic control of a windshield wiper. A rain sensor generates sensing signals indicating a rain pattern, and the neural network generates wiping demand signals indicating a wiping action desired by the driver. A training unit uses manually generated wiping supervision signals to create weight factors for the neural network.

10 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

BRIEF SUMMARY:
BACKGROUND OF THE INVENTION

This invention relates to the field of driving controls for windshield wipers. A large variety of prior art windshield wiper controllers are available for use in operating motor vehicles throughout a wide range of inclement weather conditions. These controllers typically have manually actuated switches for selection of 2 or 3 different wiping speeds, as well as a variably timed intermittent mode. Variable wiping patterns

Welcome to EAST

Getting Started

Search & Retrieval

Browsing

Options

Using BRS Syntax

Printing

Adv. Techniques

Module Goals and Objectives

Click NEXT to continue.



LOG OUT



GLOSSARY



MAP



PRINT SCREEN



MUTE



GO BACK



PREVIOUS



NEXT

PTO EAST

10/03/05

Options: Setting Defaults

Setting Defaults

Welcome to EAST

Getting Started

Search & Retrieval

Browsing

Options

Using BRS Syntax

Printing

Adv. Techniques

Setting Defaults



Click NEXT to continue.

LOG OUT

GLOSSARY

MAP

PRINT SCREEN

MUTE

GO BACK

PREVIOUS

NEXT

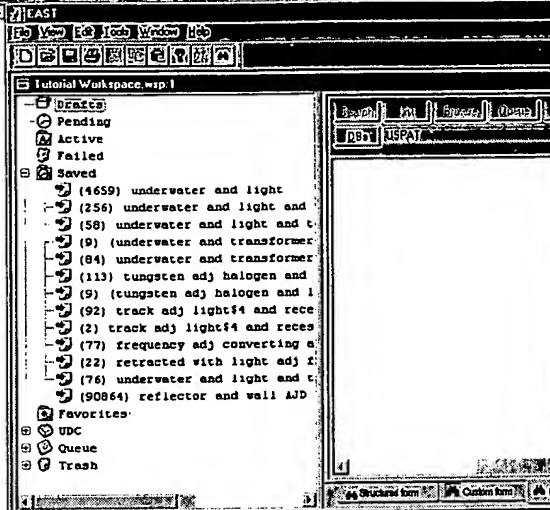
The Options Dialog Box

(3)

Any default setting selected from the Options dialog box will affect future operations only - and will have no effect on previously saved workspaces and browser layouts.

There are a few exceptions to this rule, however.

Changes to font style and size, highlight color, and tag labels will be applied to all workspaces, new and old.



LOG OUT



GLOSSARY



MAP



PRINT SCREEN



REPLAY



PAUSE/RESUME



MUTE



GO BACK



PREVIOUS



NEXT

Options: Display (1)

The Display page has many options and, as the tab implies, governs the way patents are displayed.

The first section governs the Text display formats. There are dropdown menus for each of the data sources EAST can access.

It should be noted that even though the options Full and Front Page are offered for EPO and JPO databases, there is no difference in the actual content -- both choices will bring back full text.

Options- Display (2)

Image Display Formats specifies the default display for US Full and Foreign Full images.

Image display formats affect the way the image is displayed on the Image page in the tabbed view of the workspace.

- Welcome to EAST
- Getting Started
- Search & Retrieval
- Browsing
- Options
- Using BRS Syntax
- Printing
- Adv. Techniques

File Edit View [F5] Tools Window Help

Find and Work space (wsp)

Drafts
☐ Pending
☐ Active
☐ Failed
☒ Saved

(4659) unde
 (256) under
 (58) underw
 (9) (underw
 (84) underw
 (113) tungst
 (9) (tungst
 (92) track
 (2) track a
 (77) frequ
 (22) retrac
 (76) underw
 (90864) ref

Favorites
☐ UPC
☐ Queue
☐ Trash

EAST Options

Search [Retrieve] Display [Map] [Top] [Timeout]

Text Display Format
 USPAT USOCR Disposed
 FRO FRO FRO FRO

Image Display Format
 USFULL FOREIGN
 Full Full

Navigation Collections
 Organize results by: Data Source
 Hide duplicates: After First in Sort Order
 At end of collection: Return to top of collection
 At text document boundaries: Beep

Text Display
☒ Show Highlight
☒ Underline H/T term Ref
 Font: Courier New
 Size: 10

Color
 Foreground: []
 Reference: []
 H/T term: []
 Background: []

- LOG OUT
- GLOSSARY
- MAP
- PRINT SCREEN
- REPLAY
- PAUSE/RESUME
- MUTE
- GO BACK
- PREVIOUS
- NEXT

The Foreign Full combo box contains just two of those options: full image and front page only.

Search & Retrieval

Browsing

Options

Using BRS Syntax

Printing

Adv. Techniques

REPLAY PAUSE/RESUME MUTE GO BACK PREVIOUS NEXT

Options: Display (4)

The next group governs navigation through collections. Results can be organized by data source, subclass, system tag, or user tag.

It is possible to hide duplicates after the first occurrence in the sort order, or after the first occurrence has been reviewed. Select Never if duplicates are required. Note that duplicates are displayed when sorting is done by fields that have more than one item. In the details grid, for instance, the columns Retrieval Classif and Current X-Ref can contain more than one item.

Welcome to EAST

Getting Started

Search & Retrieval

Browsing

Options

Using BRS Syntax

Printing

Adv. Techniques

Options: Display (4)

Search [Retrieve] Display [Plan] [Tags] [Timeouts]

Text Display Format

USPAT USOCR Derwent FRO FRO FRO FRO

Image Display Format

USFULL FOREIGN Full Full

Navigating Collections

Organize results by: Data Source

Hide duplicates: After First in Sort Order

At end of collection: Return to top of collection

At test document boundaries: Beep

Text Display

Show highlights: ☒ Underline Hit Item/Field

Font: Courier New

Size: 10

Color: Foreground Background

Reference Hit Item Tree View

Favorites

- UDC
- Queue
- Trash

PTO EAST
TRAINING

Options: Setting Defaults: Options-Display (5)

19/01/35

Welcome to EAST

Getting Started

Search & Retrieval

Browsing

Options

Using BRS Syntax

Printing

Adv. Techniques

Options-Display (5)

Choosing what happens when reaching the end of a collection is done by selecting either Return to Top of Collection or Notify Me.

Choosing how to be notified when reaching text boundaries is done by selecting a beep, crossing the boundary, or iterate.

1234567891011121314151617181920212223242526272829303132333435363738394041424344454647484950515253545556575859606162636465666768697071727374757677787980818283848586878889909192939495969798991001011021031041051061071081091101111121131141151161171181191201211221231241251261271281291301311321331341351361371381391401411421431441451461471481491501511521531541551561571581591601611621631641651661671681691701711721731741751761771781791801811821831841851861871881891901911921931941951961971981992002012022032042052062072082092102112122132142152162172182192202212222232242252262272282292302312322332342352362372382392402412422432442452462472482492502512522532542552562572582592602612622632642652662672682692702712722732742752762772782792802812822832842852862872882892902912922932942952962972982993003013023033043053063073083093103113123133143153163173183193203213223233243253263273283293303313323333343353363373383393403413423433443453463473483493503513523533543553563573583593603613623633643653663673683693703713723733743753763773783793803813823833843853863873883893903913923933943953963973983994004014024034044054064074084094104114124134144154164174184194204214224234244254264274284294304314324334344354364374384394404414424434444454464474484494504514524534544554564574584594604614624634644654664674684694704714724734744754764774784794804814824834844854864874884894904914924934944954964974984995005015025035045055065075085095105115125135145155165175185195205215225235245255265275285295305315325335345355365375385395405415425435445455465475485495505515525535545555565575585595605615625635645655665675685695705715725735745755765775785795805815825835845855865875885895905915925935945955965975985996006016026036046056066076086096106116126136146156166176186196206216226236246256266276286296306316326336346356366376386396406416426436446456466476486496506516526536546556566576586596606616626636646656666676686696706716726736746756766776786796806816826836846856866876886896906916926936946956966976986997007017027037047057067077087097107117127137147157167177187197207217227237247257267277287297307317327337347357367377387397407417427437447457467477487497507517527537547557567577587597607617627637647657667677687697707717727737747757767777787797807817827837847857867877887897907917927937947957967977987998008018028038048058068078088098108118128138148158168178188198208218228238248258268278288298308318328338348358368378388398408418428438448458468478488498508518528538548558568578588598608618628638648658668678688698708718728738748758768778788798808818828838848858868878888898908918928938948958968978988999009019029039049059069079089099109119129139149159169179189199209219229239249259269279289299309319329339349359369379389399409419429439449459469479489499509519529539549559569579589599609619629639649659669679689699709719729739749759769779789799809819829839849859869879889899909919929939949959969979989991000100110021003100410051006100710081009101010111012101310141015101610171018101910201021102210231024102510261027102810291030103110321033103410351036103710381039104010411042104310441045104610471048104910501051105210531054105510561057105810591060106110621063106410651066106710681069107010711072107310741075107610771078107910801081108210831084108510861087108810891090109110921093109410951096109710981099110011011102110311041105110611071108110911101111111211131114111511161117111811191120112111221123112411251126112711281129113011311132113311341135113611371138113911401141114211431144114511461147114811491150115111521153115411551156115711581159116011611162116311641165116611671168116911701171117211731174117511761177117811791180118111821183118411851186118711881189119011911192119311941195119611971198119912001201120212031204120512061207120812091210121112121213121412151216121712181219122012211222122312241225122612271228122912301231123212331234123512361237123812391240124112421243124412451246124712481249125012511252125312541255125612571258125912601261126212631264126512661267126812691270127112721273127412751276127712781279128012811282128312841285128612871288128912901291129212931294129512961297129812991300130113021303130413051306130713081309131013111312131313141315131613171318131913201321132213231324132513261327132813291330133113321333133413351336133713381339134013411342134313441345134613471348134913501351135213531354135513561357135813591360136113621363136413651366136713681369137013711372137313741375137613771378137913801381138213831384138513861387138813891390139113921393139413951396139713981399140014011402140314041405140614071408140914101411141214131414141514161417141814191420142114221423142414251426142714281429143014311432143314341435143614371438143914401441144214431444144514461447144814491450145114521453145414551456145714581459146014611462146314641465146614671468146914701471147214731474147514761477147814791480148114821483148414851486148714881489149014911492149314941495149614971498149915001501150215031504150515061507150815091510151115121513151415151516151715181519152015211522152315241525152615271528152915301531153215331534153515361537153815391540154115421543154415451546154715481549155015511552155315541555155615571558155915601561156215631564156515661567156815691570157115721573157415751576157715781579158015811582158315841585158615871588158915901591159215931594159515961597159815991600160116021603160416051606160716081609161016111612161316141615161616171618161916201621162216231624162516261627162816291630163116321633163416351636163716381639164016411642164316441645164616471648164916501651165216531654165516561657165816591660166116621663166416651666166716681669167016711672167316741675167616771678167916801681168216831684168516861687168816891690169116921693169416951696169716981699170017011702170317041705170617071708170917101711171217131714171517161717171817191720172117221723172417251726172717281729173017311732173317341735173617371738173917401741174217431744174517461747174817491750175117521753175417551756175717581759176017611762176317641765176617671768176917701771177217731774177517761777177817791780178117821783178417851786178717881789179017911792179317941795179617971798179918001801180218031804180518061807180818091810181118121813181418151816181718181819182018211822182318241825182618271828182918301831183218331834183518361837183818391840184118421843184418451846184718481849185018511852185318541855185618571858185918601861186218631864186518661867186818691870187118721873187418751876187718781879188018811882188318841885188618871888188918901891189218931894189518961897189818991900190119021903190419051906190719081909191019111912191319141915191619171918191919201921192219231924192519261927192819291930193119321933193419351936193719381939194019411942194319441945194619471948194919501951195219531954195519561957195819591960196119621963196419651966196719681969197019711972197319741975197619771978197919801981198219831984198519861987198819891990199119921993199419951996199719981999200020012002200320042005200620072008200920102011201220132014201520162017201820192020202120222023202420252026202720282029203020312032203320342035203620372038203920402041204220432044204520462047204820492050205120522053205420552056205720582059206020612062206320642065206620672068206920702071207220732074207520762077207820792080208120822083208420852086208720882089209020912092209320942095209620972098209921002101210221032104210521062107210821092110211121122113211421152116211721182119212021212122212321242125212621272128212921302131213221332134213521362137213821392140214121422143214421452146214721482149215021512152215321542155215621572158215921602161216221632164216521662167216821692170217121722173217421752176217721782179218021812182218321842185218621872188218921902191219221932194219521962197219821992200220122022203220422052206220722082209221022112212221322142215221622172218221922202221222222232224222522262227222822292230223122322233223422352236223722382239224022412242224322442245224622472248224922502251225222532254225522562257225822592260226122622263226422652266226722682269227022712272227322742275227622772278227922802281228222832284228522862287228822892290229122922293229422952296229722982299230023012302230323042305230623072308230923102311231223132314231523162317231823192320232123222323232423252326232723282329233023312332233323342335233623372338233923402341234223432344234523462347234823492350235123522353235423552356235723582359236023612362236323642365236623672368236923702371237223732374237523762377237823792380238123822383238423852386238723882389239023912392239323942395239623972398239924002401240224032404240524062407240824092410241124122413241424152416241724182419242024212422242324242425242624272428242924302431243224332434243524362437243824392440244124422443244424452446244724482449245024512452245324542455245624572458245924602461246224632464246524662467246824692470247124722473247424752476247724782479248024812482248324842485248624872488248924902491249224932494249524962497249824992500250125022503250425052506250725082509251025112512251325142515251625172518251925202521252225232524252525262527252825292530253125322533253425352536253725382539254025412542254325442545254625472548254925502551255225532554255525562557255825592560256125622563256425652566256725682569257025712572257325742575257625772578257925802581258225832584258525862587258825892590259125922593259425952596259725982599260026012602260326042605260626072608260926102611261226132614261526162617261826192620262126222623262426252626262726282629263026312632263326342635263626372638263926402641264226432644264526462647264826492650265126522653265426552656265726582659266026612662266326642665266626672668266926702671267226732674267526762677267826792680268126822683268426852686268726882689269026912692269326942695269626972698269927002701270227032704270527062707270827092710271127122713271427152716271727182719272027212722272327242725272627272728272927302731273227332734273527362737273827392740274127422743274427452746274727482749275027512752275327542755275627572758275927602761276227632764276527662767276827692770277127722773277427752776277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Options: Display (6)

The way text is displayed in the Text page of the workspace, is set here.

The size of the font can be increased or decreased, as can the typeface.

Changes to the font apply to all text within the workspace, including the names in the Tree View, the Tabbed View, and in the text document itself.

Welcome to EAST

Getting Started

Search & Retrieval

Browsing

Options

Using BRS Syntax

Printing

Adv. Techniques



LOG OUT



GLOSSARY



MAP



PRINT SCREEN



REPLAY



PAUSE/RESUME



MUTE



GO BACK



PREVIOUS



NEXT

FAST

File View Edit Tools Window Help

Value: 1 Wild space w.p. 1

Drafts

Pending

Active

Failed

Saved

(4659) unde

(256) under

(58) under

(9) under

(84) under

(113) tungst

(9) tungst

(92) track

(2) track a

(77) freque

(22) retrac

(76) under

(90864) ref

Favorites

UDC

Queue

Trash

FAST Options

Search | Retrieval | Display | File | Tag | Timeout

USPAT USOCR Document

FRD FRD FRD FRD

Image Display Format

USFULL FOREIGN

Full Full

Organizing Collections

Organize results by:

Data Source

After First in Sort Order

Hide Applications

At end of collection

Return to top of collection

At text document boundaries

Deep

Text Display

Show highlight

Underline Hit Term/Ref

Font: Courier New

Size: 10

Color

Reference

Hit Term

Background

Tree View

PTO EAST
TRAINING

Options: Setting Defaults Options: Display (7) 216135

Welcome to EAST

Getting Started

Search & Retrieval

Browsing

Options

Using BRS Syntax

Printing

Adv. Techniques

Options: Display (7)

To maintain column layout in patent-text documents, it is best to select a fixed pitch font, such as Courier or Courier New.

This is also the area where the decision to highlight and underline the keyword and reference is made.

Remember that these items refer just to the workspace and have no effect on the appearance of the highlight and references in the browser.

PTO EAST

Y V E T W B H

Tutorial Workspace.wsp.1

Drafts

Pending

Active

Failed

Saved

(A658) underwater and light

(268) underwater and light and trans

(58) underwater and light and transfi

(8) (underwater and transformer an

(84) underwater and transformer an

(113) tungsten adj halogen and low adj

(8) (tungsten adj halogen and low adj

(82) track adj light\$4 and recessed

(2) track adj light\$4 and recessed sa

(77) frequency adj converting and pov

(22) retracted with light adj fixture

View: Structural form

Custom form

AC

LOG OUT

GLOSSARY

MAP

PRINT SCREEN

REPLAY

PAUSE/RESUME

MUTE

GO BACK

PREVIOUS

NEXT

Select the type of text and then choose a foreground color. Click on the dropdown box to bring up a color chart.

Select the type of text and then choose a foreground color. Click on the dropdown box to bring up a color chart.

REPLAY PAUSE/RESUME MUTE GO BACK PREVIOUS NEXT










Options: Setting Defaults: Options: Display (9)
23 of 36

Options - Display (9)

Text can therefore be displayed in a variety of ways: white text on a black background, red text on a black background, red text on a yellow background, or any combination of colors.

LOG OUT
GLOSSARY
MAP
PRINT SCREEN
REPLAY
PAUSE/RESUME
MUTE
GO BACK
PREVIOUS
NEXT

22 EAST

-  Drafts
-  Pending
-  Active
-  Failed
-  Saved
-  Favorites
-  UDC
-  Queue
-  Trash

EASI Options

Display

Search | Refresh | Display | **Font** | **Tags** | **Timeouts**

Test Display Format

USPAT USDOC Domest

Kwic FRD FRD FRD

Image Display Format

USFULL FOREIGN

Full Full

Navigating Collections

Organize results by Data Source

After First in Sort Order

Return to top of collection

At end of collections Keep

At test document boundaries Keep

Test Display

☒ Show highlights

☐ Underline Hit Term/Ref

Font: Courier New

Size: 10

Color

Test Reference

Foreground Background

Hit View

 LOG OUT
  GLOSSARY
  MAP
  PRINT SCREEN
  REPLAY
  PAUSE/RESUME
  MUTE
  GO BACK
  PREVIOUS
  NEXT

PATENT APPLICATION TYPE CODES

A = Utility
P = Plant
S = Design
E = Reissue
H = Statutory Invention Registration (SIR)
11 = X patents
12 = RX patents
13 = Additional Information
14 = Defensive (?)

PATENT APPLICATION SERIES CODES

2 BEFORE 1-1-48
3 1-1-48 to 12-31-59
4 1-1-60 to 12-31-59
5 1-1-70 to 12-31-78
6 1-1-79 to 12-31-86
7 1-1-87 to 12-31-92
8 1-1-93 to 12-31-97
9 1-1-98 to present

ASSIGNEE TYPE CODE

Code	Type of Assignee	Partial Interest 12-19
01	Unassigned	
02	U.S. Corporation	part int. U.S. Corp.
03	Foreign Corporation	part int. Foreign Corp.
04	U.S. Individual	part int. U.S. Individual
05	Foreign Individual	part int. Foreign Individual
06	U.S. Govt.	part int. U.S. Govt.
07	Foreign Govt.	part int. Foreign Govt.
08	County Govt.	part int. County Govt.
09	State Govt.	part int. State Govt.

PRE-DEFINED DISPLAY FORMATS in EAST and WEST

FULL Full text of patent record
TI Title; Patent Number, Document Identifier
FRO Entire Front Page and derived Art Unit
CIT Patent Number; Issue Date, Title, Inventor(s), Current Classification
REV Review (CIT + abstract)
CLS Current Classification
DT Date (all relevant date information)
REF References (Cited References, Field of Search)
CLM Claims
KWIC Key Word in Context (displays the entire hit paragraph)

Additional DISPLAY FORMATS in WEST only

PN Patent numbers for US patents, in a spaced format
PNO Columnar list of patent numbers for copying and pasting into other applications

Additional DISPLAY FORMATS in EAST only

CIT + Abstract + Claims
CIT + Abstract + DT + KWIC
CIT + Abstract + KWIC
FRO + Claims
FRO + KWIC

Searching Tips

DEFAULT OPERATORS

The default operator in WEST 2.0 can be set from Main Menu → Edit User Profile. User can set default to be OR, AND, or ADJ.
The default operator in EAST 1.1 is the OR operator. It cannot be changed.
▶ Setting the plurals on in the USER PROFILE (from the main menu in WEST or from Tools/Options in EAST) will retrieve regular and irregular plurals, common British spellings, and abbreviations.
Example: L1 color (will retrieve color, colors, colour, colours)

▶ To retrieve words that may be single, hyphenated or two words, search:
Example: L1 gamma\$alumina or gamma adj alumina
non\$tskid or non adj skid
(will retrieve nonskid, non-skid, nonskid and non skid)

▶ Avoid using simultaneous left and right truncation if possible since it takes a long time to complete.
Example: L1 polymertza\$6 or copolymeriza\$6
Example: L1 modif\$8

▶ Specific date/year searches are faster than date range searches.
Example: L1 (1984 or 1985 or 1986 or 1987).py.

▶ To narrow a subject matter/assignee/inventor etc. to a specific type of patent such as Design, search:
Example: L1 iron and s.at. (S is the Design Application Type code)
Note: Search indices do not need to be capitalized.

▶ Combine search statements using L numbers in either EAST or WEST
Example: L1 not L2

▶ Temp File Overflow
BRS allocates each user 270 Megabytes of temporary storage space per login session to hold all queries and answers for the session. Temp File Overflow requires user to logout and re-login. To avoid Temp File Overflow, try to keep L-number search results under 100,000 hits by using the following rule: Create a search such that all queries composed of terms combined through the use of "OR" are combined with an additional phrase through the use of ADJ (or ADJn), NEAR (or NEARn), WITH, SAME or AND.
Example: (file\$1 or record\$1) same (compress\$3)

▶ In0 File Overflow
BRS allocates each user 270 Megabytes of "in0" or intermediate storage space per search to process the query. An in0 File Overflow causes cancellation of the current search (and display of a warning):

• Identify the common or broad terms in a search query or string of terms combined with "OR" and create one L-number for each of these concepts in the search.

• Combine the L-numbers. Temp File Overflow will still apply.

Additional Resources

Online Help: Click on the Help menu in EAST or the Help buttons in WEST.
Automation Help Desk:
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<http://ploweb/patents/east>

STIC Libraries & Electronic Information Centers:
<http://ploweb1/patents/sicadmin/slic/>

Schedule of Upcoming Automation Training Classes:
<http://ploweb/patents/training/calendar.htm>

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Subject line: "Patent Automation Training"

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EAST (1.1)



U. S. Patent Full Text Database Search Indexes

Note: Either periods "AA" or brackets "AA" can be used to identify an index. Example: 6000000.PN. or 6000000(PN)

All years are searched in the YYYY format

* See WEST 2.0 help file and May 2000 WEST manual for additional searchable indexes. This reference card does not contain all searchable indexes for US Patents Full Text.

FIELD DESCRIPTION	INDEX	EXAMPLE
APPLICATION		
Filing Date	AD..FD.	19861231.AD.
Number (6 digits required)	AP..APN.	012345.AP.
Type Code (S, P, E, H, I, A)	AT..KO.	SAT. (design)
Filing Year	AY..FY.	1980.AY.
Parent Case Information	PARN.	239099.PARN.
Series code	SRC.	"5" SRC. and 263721.AP.
APPLICATION - FOREIGN PRIORITY		
Application Number	PRAN..PRN.	286646.PRAN.
Country	PRCO..PRC.	GB.PRCO.
Date	PRAD..PRD.	19801222.PRAD.
Year	PRAY.	1995.PRAY.
APPLICATION - RELATED*		
Application Filing Date	RLAD..RLFD.	19921221.RLAD.
Application Number	RLAN.	(1248 or 001248).RLAN.
Patent Issue Date	RLPD.	19810210.RLPD.
Patent Number	RLPN.	4250020.RLPN.
ART UNIT	ART..UNIT.	376.ART.
ASSIGNEE		
City	ASCI.	"falls church".ASCI.
Country Code	ASCO..ASCC.	(FR or FRX).ASCO.
Name (bound phrase or single word)	AS..	active adj voice\$.AS.
Descriptive text	ASTX.	germany.ASTX.
State (two digit code)	ASST.	va.ASST.
Type code	ASTC.	("2" or "02").ASTC.
CLASSIFICATION*		
Current US classification info.		
US Original class	CCLS.	700/108.CCLS.
US Cross Reference	COR..CCOR.	218/118.COR.
US Class	CXR..CCXR.	435/170.CXR.
US Class	CCLS.	128/3.CCLS.
Issued US Classification info	ICLS.	312/114.ICLS.
US Original Class	ICOR..CIOR.	312/114.IOR.
US Cross-Reference	IXR..CIXR.	312/114.IXR.
Range (MOC order)	ccls..cor..cixr.	435/170-174.CCLS.
		435/170-174.COR.
		435/170-174.CXR.
International	IPC..CIPC.	C12G003/00.IPC.
FIELD OF SEARCH (US)		
IPC	FS..	435/161.FS.
	CFSI.	G06F\$5.CFSI.

FIELD DESCRIPTION	INDEX	EXAMPLE
ENTIRE PATENT (Default)	None	tree and lights
BASIC INDEX (ti.ab.spec.dms)	BI:	(christmas adj lights).BI.
EXAMINER		
Assistant	XA.	thompson.XA.
Primary	XP.	claffy-kathleen-h.XP.
Name format is lastname-firstname.XA.XP.		claffy-kath\$XP.
GOVERNMENT INTEREST	GI.	army.GI.
INVENTOR		
City	INCL.	airington.INCL.
Country	INCO..INCC.	(gb or gbx).INCO.
Descriptive text (clo ## Collins)	INTX.	collins.INTX.
Name (bound phrase+ single word)	IN:	yates-john-b.IN.
		yates-iii\$.IN.
State	INST.	va.INST.
Street address	INSA.	collins.INS.
Zipcode (not in all patents)	INZP.	43210.INZP.
LEGAL*		
Attorney or Firm	ATT.	anderson.ATT.
		vance-david\$.ATT.
PATENT INFORMATION*		
Number (7 characters required)	PN.	5000000.PN.
		0003579.PN.
		pp00123.PN.
		dp01023.PN.
		re00003.PN.
		US-6000000-A.DID.
Document Identifier	DID.	US-1234567-\$DID.
Issue Date	PD..ISD.	19971118.PD.
Issue Year	PY..ISY.	1997.PY.
PATENT SECTIONS*		
Abstract	AB.	tree AB.
Brief Summary	BSUM.	sweetener.BSUM.
Claims	CLM.	spice CLM.
Claims-design	DCLM.	"toy figure".DCLM.
Detailed Description	DETD.	flag adj pole.DETD.
Drawing Description	DRWD.	pole.DRWD.
Title	TI.	sugar.TI.
PCT		
Application Number	PTAN.	Pct/de91/00507.PCT.
Filing Date	PTAD.	19910619.PTAD.
102(e) Date	PT1D.	19921221.PT1D.
371 Date	PT3D.	19921211.PT3D.
Publication Number	PTPN.	WO91/20065.PTPN.
Publication Date	PTPD.	19911226.PTPD.
DISCLAIMER DATE	DD.	20100930.DD.
RULE 47 INDICATOR	R47X.	"4".R47X.

The only data in this field is a "4", so "4".R47X. finds all patents to which Rule 47 applies.

FIELD DESCRIPTION	INDEX	EXAMPLE
REFERENCES*		
Foreign		
Cited	.FREF..FREF.	23456.FREF.
Patent Date	.FRPD..FREF.	19850700.FRPD.
Country Code	.FRCO.	(JP or JPX).FRCO.
IPC	.FIPC.	G06F001\$3.FIPC.
Publications- Other	.OREF.	Karlin.OREF.
U.S. Patent Documents	.UREF.	5000000.UREF.
		Young.uref.
REISSUE (information derived from original patent)*		
Application Filing Date	.READ..REFD.	19950106.READ.
Application Number (6 digits required)	.REAN.	000631.REAN.
Issue Date	.REPD.	19860903.REPD.
Patent number (6 digits required)	.REPN.	05551514.REPN.
Operator and Symbol Summary		
BOOLEAN OPERATORS		
OR	TermA or TermB or both are in the patent	
AND	TermA and TermB are both in the patent	
NOT	TermA not TermB is in the patent	
XOR	TermA or TermB but not both is in the patent	
PROXIMITY OPERATORS		
ADJ	TermA next to TermB in the order specified in the same sentence	
ADJn	TermA within n terms of B in the order specified in the same sentence	
NEAR	TermA next to TermB in any order in the same sentence	
NEARn	TermA within n terms of B in any order in the same sentence	
WITH	TermA in the same sentence with TermB	
SAME	TermA in the same paragraph with TermB	
	n can be 1-99, ADJ is equal to ADJ1, NEAR is equal to NEAR1	
TRUNCATION		
\$	Zero to unlimited characters	polymer\$ or \$polymer (not recommended)
\$n	Zero to n extra characters	\$\$conductor
?	Exactly one character	dispens?r
\$n?	One or more characters	hydro?side, position?33
!	Turns plurals off (if set on)	ZnS! (will not retrieve Zn)
	Note: Use of any truncation disables plurals for terms which are truncated.	
NUMERICAL OPERATORS		
=	Equal	@pd=19971118 or search 19971118.pd.
>	Greater than	@ad>19961231
>=	Greater than or equal to	@ad>=1997
<	Less than	@py<1997
<=	Less than or equal to	@py<=1975
<=	Not equal to	@py<>19971118
>=	Range	@ay>=1980<=1985
ORDER OF EXECUTION		
TERMS ENCLOSED IN PARENTHESES		
ADJ. NEAR		
WITH		
SAME		
AND, NOT		
XOR		
OR (not enclosed in parentheses)		

pg 2 of 2

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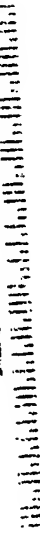
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